

	Document ID	Title
1	US 20050036997 A1	RIBOSOME STRUCTURE AND PROTEIN SYNTHESIS INHIBITORS
2	US 20040242512 A1	Novel vectors for animal cells and utilization thereof
3	US 20040137011 A1	Methods and compositions for the identification of antibiotics that are not susceptible to antibiotic resistance
4	US 20040034207 A1	Crystal structure of antibiotics bound to the 30S ribosome and its use
5	US 20040023256 A1	Translation profiling
6	US 20030232779 A1	Determination and uses of the atomic structures of ribosomes and ribosomal subunits and their ligand complexes
7	US 20030219783 A1	Surface based translation system
8	US 20030199092 A1	Methods for increasing mRNA half-life in eukaryotic cells
9	US 20030171327 A1	Determination and uses of the atomic structures of ribosomes and ribosomal subunits and their ligand complexes
10	US 20030153002 A1	Ribosome structure and protein synthesis inhibitors
11	US 20020086308 A1	Ribosome structure and protein synthesis inhibitors

	Document ID	Title
12	US 20020072861 A1	Crystal structure of antibiotics bound to the 30S ribosome and its use
13	US 6692962 B1	Plant translation methods and compositions related thereto
14	US 6638908 B1	Crystals of the large ribosomal subunit
15	US 6358713 B1	In vitro ribosome evolution
16	JP 2004298159 A	RIBOSOME REPRODUCTION INHIBITORY FACTOR AND COMPOSITION CONTAINING THE SAME AS ACTIVE INGREDIENT
17	WO 2004003511 A2	METHODS AND COMPOSITIONS FOR THE IDENTIFICATION OF ANTIBIOTICS THAT ARE NOT SUSCEPTIBLE TO ANTIBIOTIC RESISTANCE
18	WO 2004048554 A	Extract useful for synthesizing protein in cell free system, prepared from mutated S12 ribosomal gene of Escherichia coli
19	WO 2004003511 A	New plasmid comprising an rRNA gene having a mutant Anti-Shine-Dalgarno sequence, useful for identifying drug candidates that are not susceptible to antibiotic resistance

	Document ID	Title
1	US 20050058658 A1	Compositions and methods for immunotherapy of human immunodeficiency virus (HIV)
2	US 20040170978 A1	INHIBITORS OF MACROMOLECULAR ACTIVITY
3	US 20020192755 A1	Methods of screening for introduction of DNA into a target cell
4	US 20020137215 A1	Compositions and methods for use thereof in modifying the genomes of microorganisms
5	US 6737245 B1	Luciferase expression cassettes and methods of use
6	US 6177086 B1	DNA molecule conferring on Mycobacterium tuberculosis resistance against antimicrobial reactive oxygen and nitrogen intermediates



Web Images Groups News Froogle Local<sup>New!</sup> more »

"mutant ribosome" and "antibiotic resistance"

Search

Advanced Search  
Preferences

The "AND" operator is unnecessary – we include all search terms by default. [\[details\]](#)

## Web

Results 1 - 10 of about 13 for "**mutant ribosome**" and "**antibiotic resistance**". (0.35 seconds)

### Antibiotika an Ribosomen - by JMH

... might lead to wide spread **antibiotic resistance**, were largely ignored. ...  
loop of L22 obtains a rather different orientation in the **mutant ribosome**, ...  
[www.riboworld.com/antib/antibindex-eng.html](http://www.riboworld.com/antib/antibindex-eng.html) - 42k - [Cached](#) - [Similar pages](#)

### [PDF] Perspectives of Drug Design that Targets RNA

File Format: PDF/Adobe Acrobat

... **antibiotic resistance**. The atomic details of ribosome- ... affinity or target  
a **mutant ribosome** which is resistant to the. original antibiotic. ...  
[www.ingentaconnect.com/content/ben/cmcaia/2003/00000002/00000002/art00005](http://www.ingentaconnect.com/content/ben/cmcaia/2003/00000002/00000002/art00005) - [Similar pages](#)

### [PDF] Effect of Mutations in the A Site of 16 S rRNA on Aminoglycoside ...

File Format: PDF/Adobe Acrobat

... Aminoglycoside: **Mutant Ribosome** Interaction ... **Antibiotic resistance** mutations  
in ribo-. somal RNA genes of Escherichia coli. Methods Enzy- ...  
[puglisi.stanford.edu/pdf/pub46.pdf](http://puglisi.stanford.edu/pdf/pub46.pdf) - [Similar pages](#)

### Construction and Initial Characterization of Escherichia coli ...

... site was filled in with a different **antibiotic resistance** gene (7). ...  
since pure **mutant ribosome** populations from this strain are available (1). ...  
[jb.asm.org/cgi/content/full/181/12/3803](http://jb.asm.org/cgi/content/full/181/12/3803) - [Similar pages](#)

### Exploration of the conserved A+C wobble pair within the ribosomal ...

... in the background of a second mutation that confers **antibiotic resistance**.  
... The U3X-tagged rRNA served as a marker of **mutant ribosome** expression in ...  
[nar.oupjournals.org/cgi/content/full/32/12/3760](http://nar.oupjournals.org/cgi/content/full/32/12/3760) - [Similar pages](#)

### [PDF] "Antibiotics and the Ribosome". In: Protein Crystallography in ...

File Format: PDF/Adobe Acrobat

... **antibiotic resistance**. The lactone ring of a ... nate form of anisomycin should  
preferentially bind the **mutant ribosome** and, at ...  
[doi.wiley.com/10.1002/3527601872.ch4](http://doi.wiley.com/10.1002/3527601872.ch4) - [Similar pages](#)

### An Escherichia coli strain with all chromosomal rRNA operons ...

... and the in vivo production of pure **mutant ribosome** populations that are necessary  
... using **antibiotic resistance** genes by a gene replacement technique. ...  
[www.pnas.org/cgi/content/full/96/5/1971](http://www.pnas.org/cgi/content/full/96/5/1971) - [Similar pages](#)

### [PDF] Mutations in RNAs of both ribosomal subunits cause defects in ...

File Format: PDF/Adobe Acrobat - View as HTML

... The data were plotted after subtraction of background values for the number of inactive  
ribosomes, in the wild-type as well as the **mutant ribosome** preparations ...  
[www.lib.bionet.nsc.ru/EMBO/17/5/1507.pdf](http://www.lib.bionet.nsc.ru/EMBO/17/5/1507.pdf) - Supplemental Result - [Similar pages](#)

### Faculty of 1000 | Isolation of **antibiotic resistance** mutations in ...


... Isolation of **antibiotic resistance** mutations in the rRNA by using an in vitro selection  
system. ... The assembly of the **mutant ribosome** pool is performed in vivo. ...  
[www.facultyof1000.com/article/15001709](http://www.facultyof1000.com/article/15001709) - Supplemental Result - [Similar pages](#)

Isolation of **antibiotic resistance** mutations in the rRNA by using ...

... an example of its application to the selection of **antibiotic resistance** mutations. ...







In this system the **mutant ribosome** pool carries a modified Shine-Dalgarno (SD ...

pubmedcentral.com/articlerender.fcgi?artid=374322 - Supplemental Result - [Similar pages](#)

Google 

Result Page:    1   2    [Next](#)

Free! Google Desktop Search: Search your own computer. [Download now.](#)

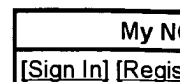
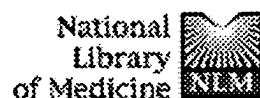
**Find:**  emails -  files -  chats -  web history -  media -  PDF

"mutant ribosome" and "antibiotic res" 

[Search within results](#) | [Language Tools](#) | [Search Tips](#) | [Dissatisfied? Help us improve](#)

[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

©2005 Google



All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for Garrett R and antibiotic and plasmid Go Clear Save Search

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

About Entrez

Text Version

#### Entrez PubMed

Overview  
Help | FAQ  
Tutorial  
New/Noteworthy  
E-Utilities

#### PubMed Services

Journals Database  
MeSH Database  
Single Citation Matcher  
Batch Citation Matcher  
Clinical Queries  
LinkOut  
My NCBI (Cubby)

#### Related Resources

Order Documents  
NLM Catalog  
NLM Gateway  
TOXNET  
Consumer Health  
Clinical Alerts  
ClinicalTrials.gov  
PubMed Central

All: 4 Review: 1

Items 1 - 4 of 4

One page.

☐ 1: [Aagaard C, Leviev I, Aravalli RN, Forterre P, Prieur D, Garrett RA.](#) Related Articles, Links



General vectors for archaeal hyperthermophiles: strategies based on a mobile intron and a plasmid.

FEMS Microbiol Rev. 1996 May;18(2-3):93-104. Review.  
PMID: 8639332 [PubMed - indexed for MEDLINE]

☐ 2: [Mankin AS, Zyrianova IM, Kagramanova VK, Garrett RA.](#) Related Articles, Links



Introducing mutations into the single-copy chromosomal 23S rRNA gene of the archaeon Halobacterium halobium by using an rRNA operon-based transformation system.

Proc Natl Acad Sci U S A. 1992 Jul 15;89(14):6535-9.  
PMID: 1631155 [PubMed - indexed for MEDLINE]

☐ 3: [Vester B, Garrett RA.](#) Related Articles, Links



The importance of highly conserved nucleotides in the binding region of chloramphenicol at the peptidyl transfer centre of Escherichia coli 23S ribosomal RNA.

EMBO J. 1988 Nov;7(11):3577-87.  
PMID: 3061800 [PubMed - indexed for MEDLINE]

☐ 4: [Vester B, Garrett RA.](#) Related Articles, Links



A plasmid-coded and site-directed mutation in Escherichia coli 23S RNA that confers resistance to erythromycin: implications for the mechanism of action of erythromycin.

Biochimie. 1987 Aug;69(8):891-900.  
PMID: 2447958 [PubMed - indexed for MEDLINE]

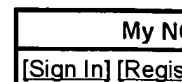
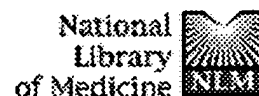
[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Apr 18 2005 07:10:12



All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Boo

Search PubMed for Garrett R and antibiotic Go Clear Save Sea

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

My NCBI (Cubby)

Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

All: 34 Review: 6

Items 1 - 6 of 6

One page.

☐ 1: Porse BT, Garrett RA.

Related Articles, Links



**Ribosomal mechanics, antibiotics, and GTP hydrolysis.**

Cell. 1999 May 14;97(4):423-6. Review. No abstract available.

PMID: 10338205 [PubMed - indexed for MEDLINE]

☐ 2: Rodriguez-Fonseca C, Garrett RA.

Related Articles, Links



**Chemical and enzymatic probing of antibiotic-ribosome complexes.**

Methods Mol Biol. 1998;77:311-23. Review. No abstract available.

PMID: 9770679 [PubMed - indexed for MEDLINE]

☐ 3: Kirillov S, Porse BT, Vester B, Woolley P, Garrett RA.

Related Articles, Links



**Movement of the 3'-end of tRNA through the peptidyl transferase centre and its inhibition by antibiotics.**

FEBS Lett. 1997 Apr 14;406(3):223-33. Review.

PMID: 9136892 [PubMed - indexed for MEDLINE]

☐ 4: Aagaard C, Leviev I, Aravalli RN, Forterre P, Prieur D, Garrett RA.

Related Articles, Links



**General vectors for archaeal hyperthermophiles: strategies based on a mobile intron and a plasmid.**

FEMS Microbiol Rev. 1996 May;18(2-3):93-104. Review.

PMID: 8639332 [PubMed - indexed for MEDLINE]

☐ 5: Porse BT, Rodriguez-Fonseca C, Leviev I, Garrett RA.

Related Articles, Links



**Antibiotic inhibition of the movement of tRNA substrates through a peptidyl transferase cavity.**

Biochem Cell Biol. 1995 Nov-Dec;73(11-12):877-85. Review.

PMID: 8722003 [PubMed - indexed for MEDLINE]

☐ 6: Garrett RA, Wittmann HG.

Related Articles, Links



**Structure of bacterial ribosomes.**

Adv Protein Chem. 1973;27:277-347. Review. No abstract available.

PMID: 4589667 [PubMed - indexed for MEDLINE]

Display Summary Show 20 Sort by Send to

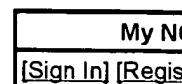
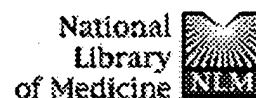
[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Apr 18 2005 07:10:12



All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for cunningham and "shine"

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by  Send to

About Entrez

Text Version

#### Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

#### PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

My NCBI (Cubby)

#### Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

All: 5 Review: 0

Items 1 - 5 of 5

One page.

- ☐ 1: Nichol KA, Morey A, Couzens MH, Shine J, Herzog H, Cunningham AM. [Related Articles, Links](#)



Conservation of expression of neuropeptide Y5 receptor between human and rat hypothalamus and limbic regions suggests an integral role in central neuroendocrine control.

J Neurosci. 1999 Dec 1;19(23):10295-304.

PMID: 10575027 [PubMed - indexed for MEDLINE]

- ☐ 2: Depczynski B, Nichol K, Fathi Z, Iismaa T, Shine J, Cunningham A. [Related Articles, Links](#)



Distribution and characterization of the cell types expressing GALR2 mRNA in brain and pituitary gland.

Ann N Y Acad Sci. 1998 Dec 21;863:120-8.

PMID: 9928165 [PubMed - indexed for MEDLINE]

- ☐ 3: Lee K, Holland-Staley CA, Cunningham PR. [Related Articles, Links](#)



Genetic analysis of the Shine-Dalgarno interaction: selection of alternative functional mRNA-rRNA combinations.

RNA. 1996 Dec;2(12):1270-85.

PMID: 8972775 [PubMed - indexed for MEDLINE]

- ☐ 4: Denman R, Weitzmann C, Cunningham PR, Negre D, Nurse K, Colgan J, Pan YC, Miedel M, Ofengand J. [Related Articles, Links](#)



In vitro assembly of 30S and 70S bacterial ribosomes from 16S RNA containing single base substitutions, insertions, and deletions around the decoding site (C1400).

Biochemistry. 1989 Feb 7;28(3):1002-11.

PMID: 2540813 [PubMed - indexed for MEDLINE]

- ☐ 5: Cunningham PR, Negre D, Weitzmann C, Denman R, Nurse K, Ofengand J. [Related Articles, Links](#)



The role of 16S RNA in ribosome function: single base alterations and their effect on in vitro protein synthesis.

Arch Biol Med Exp (Santiago). 1988 Dec;21(3-4):393-401.

PMID: 2476074 [PubMed - indexed for MEDLINE]

Display Summary Show 20 Sort by  Send to

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)





## Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.  
Additionally, enter the **first few letters** of the Inventor's First name.

**Last Name****First Name**

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)